

76651  
COUNTY OF STIRLING.

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COUNTY EDUCATION AUTHORITY.

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SEVENTEENTH  
ANNUAL REPORT

ON

*Medical Inspection of  
School Children*

BY

T. ADAM, M.A., M.D., D.P.H. (CAMB.)

CHIEF SCHOOL MEDICAL OFFICER

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YEAR 1926-27.

*With Dr. Adam's  
Compliments*

*County Buildings  
Stirling*

51 NOV 1927

# EDUCATION AUTHORITY OF THE COUNTY of STIRLING.

## MEDICAL INSPECTION STAFF.

### *School Medical Officer—*

THOMAS ADAM, M.A., M.D., D.P.H. (Camb.)

### *Assistant Medical Officers—*

JOHN S. FINDLAY, M.B., C.M., D.P.H.

MARGARET T. RUTHERFORD, M.B., Ch.B., D.P.H.

\*THOMAS FERGUSON, M.D., D.P.H., M.R.C.P.E.

\*J. CRAIG LINDSAY, M.B., Ch.B., D.P.H.

### *School Nurses—*

MARGARET ADAM.

ISABELLA BROWN.

RUTH M. DOUGHTY.

JESSIE M. HOPKINS.

### *Clerks—*

MARGARET NICOL.

MARGARET GALLOWAY (Dental Clinic).

PATRICIA ROBERTSON (Dental Clinic).

### *Oculist (part-time)—*

JOHN GILCHRIST, M.D., 2 Somerset Place, Sauchiehall Street, Glasgow.

### *Dentists—*

ANDREW P. M. M'QUEEN, L.D.S., Old High School, Falkirk.

JOSEPH SHEARMAN, L.D.S., County Buildings, Stirling.

JAMES W. SOMERVILLE, L.D.S., R.C.S. (part-time), 4 Viewfield Place, Stirling.

\*Dr. FERGUSON, on his appointment as Deputy Medical Officer of Health of the City of Darlington, resigned from his post here at the end of January, and was succeeded by Dr. LINDSAY.

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# EDUCATION AUTHORITY OF THE COUNTY OF STIRLING.

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## SEVENTEENTH ANNUAL REPORT on MEDICAL INSPECTION OF SCHOOL CHILDREN, 1926-27.

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COUNTY BUILDINGS, STIRLING.

The present Report on the MEDICAL INSPECTION OF SCHOOL CHILDREN in Stirlingshire is for the period from 1st August, 1926, to 31st July, 1927.

The following is a list of Staff employed throughout the year :—

*School Medical Officer*—THOMAS ADAM, M.A., M.D., D.P.H.  
(Camb.).

*Assistant Medical Officers*—JOHN S. FINDLAY, M.B., C.M.,  
D.P.H.

MARGARET T. RUTHERFORD, M.B.,  
Ch.B., D.P.H.

THOMAS FERGUSON, M.D., D.P.H.,  
M.R.C.P.E. (resigned in Jan.)

J. CRAIG LINDSAY, M.B., Ch.B., D.P.H.

*School Nurses*—MARGARET ADAM, ISABELLA BROWN, RUTH  
M. DOUGHTY, JESSIE M. HOPKINS.

*Clerks*—MARGARET NICOL, MARGARET GALLOWAY (Dental  
Clinic), PATRICIA ROBERTSON (Dental Clinic).

*Oculist* (part-time)—JOHN GILCHRIST, M.D.

*Dentists*—ANDREW P. M. M<sup>c</sup>QUEEN, L.D.S., Old High School,  
Falkirk.

JOSEPH SHEARMAN, L.D.S., County Buildings, Stir-  
ling.

JAMES W. SOMERVILLE, L.D.S., R.C.S. (part-time),  
4 Viewfield Place, Stirling.

Although the list of Staff gives the names of four Assistant Medical Officers, there are as before really only three assistants. Dr. Ferguson, however, who had been on the Staff for fully three years, was appointed to the important position of Deputy Medical Officer of Health of the City of Darlington towards the end of January, and he was succeeded by Dr. J. Craig Lindsay. The other members of the Staff are as before.

The Co-ordinated Scheme of Medical and Nursing Services under the County Joint Committee has continued to work with great satisfaction. On the County Committee are represented the County Education Authority, the County Child Welfare Committee and the County Tuberculosis Committee, and the expenses in connection with these services are allocated as indicated in former Reports.

The number of Schools in the County coming under the Scheme of Medical Inspection is 96, the number of children on the Register being approximately 28,314, and the average attendance 25,608.

The following is a note of the number of visits paid to Schools for systematic examination, in accordance with the Scheme of Medical Inspection :—

Dr. Findlay, ...	...	...	229
Dr. Rutherford,	...	...	203
Dr. Ferguson, ...	...	...	97
Dr. Lindsay, ...	...	...	57
			<hr/>
			586
			<hr/>

The number of special visits to Schools for purposes other than routine inspection was :—

Dr. Findlay, ...	...	...	27
Dr. Rutherford,	...	...	29
Dr. Ferguson, ...	...	...	16
Dr. Lindsay, ...	...	...	11
			<hr/>
			83
			<hr/>

DEFECTIVE AND INVALID CHILDREN.—The Special Schools or Classes for Defective Children will be dealt with at a later part of the Report.

DIARY SHEETS.—From the Diary Sheets made out fortnightly by the Assistant Medical Officers, the following table has been prepared showing the number of routine and non-routine examinations made throughout the year, together with the total time occupied and the average time taken to the examination of each child.

## SUMMARY OF DIARY SHEETS.

Inspector	Routine Examination	Non-Routine Examination	Time Occupied	
			Hrs.	Mins.
Dr. J. S. Findlay ...	2848	669	499	45
Dr. M. T. Rutherford	3309	582	458	15
Dr. T. Ferguson ...	1783	280	211	...
Dr. Lindsay ... ..	829	285	124	30
Total ... ..	8769	1816	1293	30

Average number of children examined per hour—8.

Average time taken to examination of each child—7.5 minutes.

The very noticeable feature of the foregoing tabulated results is the constant rate at which the work of examination continues to be done.

SANITARY CONDITIONS OF SCHOOLS.—The Assistant Medical Officers, in their routine inspection of school premises, have to report to me conditions which appear in need of attention from various causes. These are at once transmitted to Mr. Malcolm, Master of Works, with whom my Department is always in the closest co-operation. In the last Annual Report I indicated that a move had been made to abolish the pail privy system at Chapelgreen School, and to instal water closets, but that the question had to be considered as to whether the Queenzieburn water supply could stand the further drain upon it due to more water closets. During the year the water closets were actually installed, and the drainage therefrom connected with the up-to-date system which has been provided for Queenzieburn by Messrs. William Baird and Company.

The other schools in which matters of more or less importance were brought to the notice of Mr. Malcolm were Denny Public School, Stirling Episcopal School, and Stirling High School.

SCHOOL PLAYGROUNDS.—The ash surfaces of most of the playgrounds still persist. During good weather these are quite good, but during wet weather, and especially in winter-time after frost, they are sometimes very unsatisfactory. The difficulty, as before, has been the expense of providing the playgrounds with an impervious surface.

FIRST-AID APPLIANCES FOR USE IN SCHOOLS.—The teachers have found these of great use as accidents are so often occurring among the children. As the contents of the outfit boxes are used up, the Head Teachers apply to my Department for a renewal, and such requests always receive prompt attention.



ORGANISATION AND ADMINISTRATION.—Full details of the Scheme of School Medical Inspection have been given in former Reports, and of how the County Sanitary Staff co-operate with the School Staff. Each of the combining Authorities is kept in close touch with the part of the work in which it is specially interested, and quarterly reports are submitted to the Education Authority.

ATTENDANCE OF PARENTS AT MEDICAL INSPECTION.—The percentage of parents in attendance at the Medical Inspection of the children was 24. From year to year it has been my pleasant duty to record an increasing percentage of parents present, and this year it is the highest of all.

The total numbers of children at the various age groups examined during the year were :—

5 year old boys,	...	...	1717
5 year old girls,	...	...	1630
9 year old boys,	...	...	1220
9 year old girls,	...	...	1253
13 year old boys,	...	...	1369
13 year old girls,	...	...	1352
16 year old boys,	...	...	121
16 year old girls,	...	...	107
<hr/>			
Total,	...	...	8769
Special Cases, number examined,			1816
<hr/>			
Total number of Children			
examined,	...	...	10,585

The number of children examined this year exceeds the total of last year by 197.

Including the Special Cases as before, the total number of children medically examined is approximately one-third of the School population.

Number of Children Examined				Number of Notices Sent	
Routine Inspection	...	...	8,769	898	10.5%
Special Cases examined for defects			1,816	329	
Total				1227	

In connection with the 8769 children examined in routine inspection, 898 notices were sent to parents calling attention to some condition requiring to be attended to: while 329 similar notices were issued in connection with 1836 special cases.



## AMELIORATION OF DEFECTS.

The following three tables are meant to indicate what has been accomplished in the way of amelioration with regard respectively to Defective Vision, affections other than Defective Vision, and Verminous Conditions. These tables are so detailed as to give the results for each Parish, showing the number who have received attention either at the hands of the Oculist, Medical Attendant, or otherwise.

## AMELIORATION TABLE—DEFECTIVE VISION.

DISTRICT	No. of Children notified by School Medical Inspectors	No. of Children waiting visit of Oculist	No. of Children whose parents refused treatment or had left district	No. of Children treated by own Oculist	No. of Children for whom glasses were prescribed	No. of Children otherwise treated	No. of Children who failed to attend Clinic	No. of Visits paid by Nurses
Airth	18	9	...	2	3	4	...	28
Baldernock	...	...	...	...	...	...	...	...
Balfron	15	...	1	...	8	...	1	43
Buchanan	1	...	...	...	...	1	...	2
Campsie	47	18	4	2	18	5	...	97
Denny	92	3	11	3	48	25	2	243
Dunipace	6	1	2	...	2	1	...	14
Drymen	4	...	1	2	...	1	...	5
Falkirk (Burgh)	257	125	6	10	120	34	5	416
Falkirk (Landward)	54	...	2	...	37	8	5	104
Fintry	2	...	...	...	1	...	1	4
Grangemouth (Burgh)	88	2	1	17	61	7	...	169
Grangemouth (Landward)	146	20	13	12	62	28	11	280
Gargunnoch	1	...	...	...	1	...	...	1
Killearn	...	...	...	...	...	...	...	...
Kilsyth	119	77	6	4	24	4	4	163
Kippen	9	1	...	...	3	5	...	9
Larbert	80	26	9	...	49	10	2	132
Logie	14	...	3	...	7	2	2	21
Muiravonside	98	...	27	7	42	15	7	190
St. Ninians	113	9	13	2	66	13	10	171
Stirling	194	19	17	11	108	29	7	266
Slamannan	51	3	2	2	30	9	5	105
Strathblano	3	1	...	...	1	1	...	5
Total	1412	311	118	77	691	207	62	2468

## AMELIORATION TABLE (EXCLUDING DEFECTIVE VISION).

District	Tonsils		Adenoids		Heart		Ears		Various		No. of children reported to Nurses	No. of defects reported to Nurses	No. of visits paid by Nurses
	Treated	Promised to get treatment	Treated	Promised to get treatment	Treated	Promised to get treatment	Treated	Promised to get treatment	Treated	Promised to get treatment			
Airth ...	7	5	1	2	...	2	...	...	...	...	17	21	17
Baldernock	3	1	...	1*	...	...	...	...	...	...	4	5	7
Balfour ...	3	3	1	3	...	...	3	...	...	...	14	17	21
Buchanan	...	2	...	1	...	...	...	...	...	...	2	3	2
Campsie ...	5	12	7	11	...	...	...	...	...	...	54	87	64
Denny ...	12	20	16	24	...	...	12	3	33	...	95	120	115
Dunipace	2	3	2	2	...	...	4	...	5	...	16	18	24
Drymen ...	...	1	...	1	...	...	1	...	2	...	4	5	8
Falkirk	39	47	20	18	23	19	5	116	7	270	324	270	270
Falkirk (Burgh)	15	20	8	6	15	6	2	31	5	94	125	96	96
(Landward)	3	...	1	...	...	...	2	...	...	6	6	6	6
Finty ...	23	6	...	...	2	7	2	9	7	49	56	60	60
(Grange-mouth)	33	16	22	6	23	9	5	59	11	129	184	148	148
(Grange-mouth)	1	...	...	...	...	...	...	...	...	1	1	1	1
(Landward)	2	1	1	1	...	1	...	...	...	5	7	5	5
Gargunnoch	14	35	18	36	...	28	10	48	...	152	189	216	216
Kilsyth ...	...	1	...	...	...	...	1	...	...	8	11	1	1
Kippen ...	10	24	6	11	...	17	...	30	6	80	123	152	152
Larbert ...	2	5	...	...	...	...	...	...	...	16	16	7	7
Logie ...	29	15	13	6	14	14	5	53	15	120	164	140	140
Muiravonsid	10	11	2	3	1	1	3	29	2	62	72	73	73
St. Ninians	17	12	...	...	...	11	3	115	5	182	184	219	219
Stirling ...	14	11	3	4	5	4	2	16	8	57	67	64	64
Slamannan	1	1	1	...	...	...	1	...	...	3	4	6	6
Strathblane	...	...	...	...	...	...	...	...	...	...	...	...	...
Total	245	252	122	139	84	148	50	589	66	1440	1809	1722	1722

## AMELIORATION TABLE—VERMINOUS CHILDREN.

District	No. of Children	No. of Visits	No. Cleansed	No. Improved
Airth ... ..	3	4	3	...
Baldernock ...	...	...	...	...
Balfron ... ..	...	...	...	...
Buchanan ... ..	...	...	...	...
Campsie ... ..	10	28	2	8
Denny ... ..	23	78	11	12
Dunipace ... ..	5	15	1	4
Drymen ... ..	...	...	...	...
Falkirk (Burgh)	45	64	20	25
Falkirk (Landward)	8	13	8	...
Fintry ... ..	4	4	...	4
Gargunnoch ...	...	...	...	...
Grangemouth (Burgh) ...	4	4	4	...
Grangemouth (Landward)	17	21	15	2
Killearn ... ..	...	...	...	...
Kilsyth ... ..	31	108	8	14
Kippen ... ..	...	...	...	...
Larbert ... ..	15	28	12	3
Logie ... ..	1	1	...	1
Muiravonside ...	14	18	13	1
Slamannan ...	7	7	7	...
St. Ninians ...	28	44	10	18
Stirling ... ..	66	101	17	49
Strathblane ...	3	12	...	3
Total ...	284	550	131	144

As before, Dr. Gilechrist of Glasgow is responsible for the great part of the work in connection with cases of defective vision. Two of the Assistant Medical Officers, however, continue to give part of their time to eye work. The chief centres are at the Old High School, Falkirk, while in Stirling the work is carried out at the East Kirk Institute, almost opposite the High School. As there are now ample means of conveyance, children come to these centres for examination from a wide area in each case. Kilsyth Academy is also a centre for Oculist work, and it serves a fairly wide area. Owing to the sparsity of the population in the Western District it is necessary for Dr. Gilechrist to make a tour of the outlying schools as often as required, certain of these schools being used as subsidiary centres.

## CLOTHING.

No. of Children					No. having insufficient Clothing	No. having ragged Clothing	No. having dirty Clothing
Boys	...	...	...	4427	3	1	2
Girls	...	...	...	4342	...	...	...
Total Routine	...	...	...	8769	3	1	2
Percentage	...	...	...		.03	.01	.02
Special Cases	...	...	...		4	4	5

The foregoing table shows that of the 8769 children examined in routine inspection, only 3 were noted as having insufficient clothing, the clothing of one was ragged, and two had dirty clothing. This marks a great improvement on the results of last year, when no fewer than 27 out of a slightly smaller number of routine inspections were found with insufficient clothing. The special cases examined also show considerable improvement, as only 4 were noted with insufficient clothing as compared with 9 in the previous year. It might have been expected that the results for the year under review, including, as that period does, the whole duration of the coal trouble, would have been extremely unfavourable, and the improvement is to be attributed to the action of the County Education Authority and also of the Poor Law Authorities.

## FOOTGEAR.

No. Examined					No. with unsatisfactory footgear.
Boys	...	...	...	4427	2
Girls	...	...	...	4342	2
Total Routine	...	...	...	8769	4
Percentage	...	...	...		.04
Special Cases	...	...	...		5

The table shows that in spite of the industrial trouble the number of children not properly shod was very small, and that satisfactory result was largely due to the same agencies as in the case of the clothing.

## AVERAGE HEIGHT AND WEIGHT.

## HEIGHT IN INCHES.

Average Ages		5 7/12	8 8/12	13 5/12	15 8/12
Boys	Stirlingshire ... ..	42.1	49.7	57.0	62.8
"	" 1925-26	42.1	48.6	56.9	64.3
"	Standard... ..	41.0	50.7	56.9	63.3
Average Ages		5 7/12	8 10/12	13 3/12	15 8/12
Girls	Stirlingshire ... ..	41.8	48.2	57.9	61.7
"	" 1925-26	41.6	48.2	57.8	62.4
"	Standard... ..	40.8	50.0	57.8	61.5

## WEIGHT IN POUNDS (AVOIRDUPOIS).

Average Ages		5 7/12	8 8/12	13 5/12	15 8/12
Boys	Stirlingshire ... ..	41.8	55.7	83.2	112.2
"	" 1925-26	41.6	55.8	82.9	116.9
"	Standard... ..	39.9	64.9	82.6	110.0
Average Ages		5 7/12	8 10/12	13 3/12	15 8/12
Girls	Stirlingshire ... ..	40.1	52.6	86.7	108.6
"	" 1925-26	39.7	52.9	85.5	111.1
"	Standard ..... ..	39.6	59.0	87.0	109.9

The above tables give the heights and weights for the boys and girls of various ages for the year under review, and also for the preceeding year, these being compared with the standard heights and weights. One notices how closely these approximate, the only variation of any note being at the second age group, where the figures are below the standard.

## CLEANLINESS OF HEAD AND BODY.

Number Examined				Head			Body	
				Dirty	Nits	Vermin	Dirty	Vermin
Boys	...	...	4427	2	46	4	11	8
Girls	...	...	4342	1	421	78	5	4
Total Routine	...	...	8769	3	467	82	16	12
Percentage	...	...	...	.03	5.3	.94	.18	.14
Special Cases	...	...	...	11	48	54	10	21

Last year it was pointed out that the figures indicating the cleanliness of head and body amongst children inspected marked a considerable improvement on previous results, this being probably due to the fashion among girls of having their hair closely cut. This year the improvement has been more than maintained, for while the percentage with nits in their hair is 5.3 as against 4.98 last year, the percentage found with vermin among the hair is only .94, as compared with 1.71, which is almost double. Last year children found with dirty bodies numbered 20, those with verminous bodies also 20. This year the corresponding numbers are 16 and 12 respectively. It is only by such close supervision as can be exercised in School Medical Inspection that such favourable results can be attained.

### CONDITION OF SKIN.

In the following table it will be noticed that 17 children were found with Ringworm of the head, and 5 with Ringworm of the body. The former is often very persistent, and has been known to persist for years. The numbers with Impetigo are fairly large as usual, but this disease cannot be considered really serious if properly treated. Occasionally owing to the carelessness of the parents, children have to be excluded as a safeguard for the other scholars, as if the impetiginous sore is on the hands or face it is very apt to be spread by means of the school towel. Eight children were found to be suffering from scabies and 2 were brought forward as special cases by the teachers. The numbers suffering from scabies during and for some time after the War was large, but it has consistently decreased since. The clinic at my office still continues on Saturday mornings at which children with skin eruptions and other affections are seen.



## CONDITION OF SKIN.

No. Examined				HEAD			BODY			
				Ringworm	Impetigo	Others	Ringworm	Impetigo	Scabies	Others
Boys ...	...	...	...	11	10	17	3	36	5	29
Girls ...	...	...	...	6	10	18	2	37	3	27
Total Routine	...	...	...	17	20	35	5	73	8	56
Percentages	...	...	...	.19	.23	.39	.06	.83	.09	.63
Special Cases	...	...	...	9	21	18	2	46	2	24

## NUTRITION.

Number Examined					Above Average	Average	Below Average	Very Bad
Boys	...	...	...	4427	2644	1710	73	...
Girls	...	...	...	4342	2318	1913	111	...
Total Routine	...	...	...	8769	4962	3623	184	...
Percentages	...	...	...		56.59	41.32	2.09	...
Special Cases	...	...	...		...	...	2	...

The figures indicating the state of nutrition of the children examined continue to be very satisfactory, no children on inspection being considered very bad, and only 2 per cent. somewhat below the average.

## TEETH.

Number Examined					Sound	1-4 decayed	5 or more decayed	Oral Sepsis
Boys	...	...	...	4427	1265	2344	818	...
Girls	...	...	...	4342	1517	2038	787	...
Total Routine	...	...	...	8769	2782	4382	1605	...
Percentages	...	...	...		31.73	49.97	18.30	...
Special Cases	...	...	...		...	...	2	...

The percentage of children found with sound teeth is almost exactly the same as last year, the number who had 1-4 teeth decayed being only about 50 per cent., while the number with 5 or more decayed is slightly under last year's figure. The close approximation is really wonderful, there being if anything a slight improvement this year. From year to year improvement has been recorded since our scheme of dental treatment began.

## DENTAL TREATMENT.

The part-time services of Mr. Somerville, L.D.S., are still retained for Schools within Stirling Burgh. Mr. Somerville carries out his work in the High School usually on Friday forenoons. As before, the full-time dentists are Mr. McQueen and Mr. Shearman, the former having the Eastern portion of the district as his field of work, while the latter has the Western and Central portions, excluding the Burgh of Stirling.

The following table shows the work carried out by Mr. Somerville within Stirling Burgh. It will be noticed that the arrangement of the table is somewhat different from preceding years, the reason being that it was thought desirable to have the table of Mr. Somerville's work made comparable with the tables in connection with the work of the full-time dentists.

DENTAL TREATMENT TABLE.

School.	No. of Children Inspected.	No. of Children Requiring Treatment.	No. of Children Treated.	Number of Extractions.		Number of Fillings.		Dressings.	Scalings.	Other Treatment.
				Temporary.	Permanent.	Temporary.	Permanent.			
Allan's, ...	532	381	65	69	13	3	45	26	5	...
Craig's, ...	615	487	47	67	5	5	32	7	3	...
Episcopal, ...	153	124	11	17	4	...	12	...	2	...
Primary High,	336	192	29	15	4	1	29	...	5	...
St. Mary's R.C.,	651	543	70	117	22	4	51	5	3	...
Territorial, ...	914	728	65	73	9	2	41	2	3	...
	3201	2455	278	358	57	15	210	40	21	...

# DENTAL OFFICER'S ANNUAL REPORT FROM 30/8/26 TO 29/6/27.

School.	No. of Children Inspected.	No. of Children requiring Treatment.	No. of Children Treated.	Number of Extractions.		Number of Fillings.		Dressings.	Scalings.	Other Treatment.
				Temporary.	Permanent.	Temporary.	Permanent.			
Araprior, ...	25	21	5	12	...	...	4	...	...	...
Auchentrolg, ...	20	19	2	8	...	...	1	...	...	...
Balfour, ...	579	331	113	172	58	...	140	...	9	...
Baldernock, ...	38	38	16	20	4	...	22	...	...	1
Bannockburn, ...	1175	906	187	480	53	13	149	12	25	...
Bannockburn R.C., ...	503	423	118	402	24	15	108	7	11	...
Banton, ...	68	60	16	19	12	...	11	2	...	...
Banknock, ...	97	91	22	55	8	...	9	1	...	...
Bridge of Allan, ...	509	459	86	180	10	6	81	6	14	...
Buchanan, ...	41	30	11	8	6	...	11	...	2	...
Buchlyvie, ...	77	68	23	30	6	1	16	...	...	...
Cambusbarron, ...	189	165	46	89	9	2	32	1	...	...
Campsie Glen, ...	13	11	2	3	1	...	1	...	...	...
Castlecary, ...	42	42	11	34	...	...	4	...	...	...
Causewayhead, ...	215	182	27	83	3	...	10	...	5	...
Chapelgreen, ...	83	76	20	53	0	2	10	...	2	...
Cowie, ...	822	598	99	199	35	10	77	5	13	...
Cowie R.C., ...	330	236	89	163	22	0	48	1	11	...
Denny, ...	801	628	129	257	41	12	114	4	17	1
Denny R.C., ...	232	210	45	144	12	1	40	...	...	...
Dennyloanhead	156	150	29	56	17	4	23	...	...	...
Dunipace, ...	183	152	32	72	8	2	30	2	...	...
Drymen, ...	50	41	25	23	9	...	19	...	...	...
Fallin, ...	570	454	107	292	45	4	61	...	8	...
Finty, ...	...	...	11	20	3	...	4	...	...	...
Gargunnoch, ...	44	36	6	10	1	6	1	...	...	...
Invernaid, ...	6	6	3	3	...	...	...	...	...	...
Killearn, ...	57	23	13	42	10	3	13	...	...	...
Kilsyth, ...	1070	992	282	550	89	0	302	26	40	...
Kilsyth R.C., ...	291	289	59	153	15	...	48	7	1	1
Kippen, ...	164	77	81	169	12	12	67	5	7	...
Lennoxtown, ...	235	272	70	88	33	...	86	18	12	1
Lennoxtown R.C., ...	200	181	50	107	27	...	33	4	...	...
Longcroft, ...	390	328	95	204	20	10	65	...	...	...
Milton of Campsie, ...	150	138	58	97	30	...	60	7	3	...
Muirland, ...	18	18	6	0	...	...	...	...	...	...
Plean, ...	373	311	148	352	52	3	125	...	3	...
Salloch, ...	7	6	2	2	1	...	2	...	...	...
Saulchie, ...	26	25	...	...	...	...	...	...	...	...
St. Ninians, ...	408	325	40	123	13	6	35	...	...	...
Strathblane, ...	79	72	17	33	5	1	17	...	1	...
Torrance, ...	91	80	20	43	4	...	20	5	...	...
West Plean, ...	38	35	12	27	4	...	12	...	...	...
Whins of Milton, ...	56	52	5	17	1	...	...	...	...	2
	10,323	8,731	2249	4905	718	124	1623	113	197	0

## WAITING TREATMENT.

Finty, ...	...	7
Muirland, ...	...	4
Cambusbarron, ...	...	17
Plean, ...	...	35
Dunipace, ...	...	30
Denny R.C., ...	...	27

## MATERNITY AND CHILD WELFARE.

Mothers treated, ...	...	2
1 at Killearn, ...	...	5 extractions.
1 at Strathblane, ...	...	7 extractions.



	Physically Defective.	Mentally Defective.
Boys, ... ..	841	2309
Girls, ... ..	...	323
Total, ...	841	2632

## AVERAGE ATTENDANCES.

	Physically Defective.	Mentally Defective.
Boys, ... ..	2.06	5.68
Girls, ... ..	...	.77
Total,	2.06	6.45

## NUMBER OF SCHOLARS ON ROLL ON LAST DAY OF OPENING.

Age.	7 under 8	8 under 9	9 under 10	10 under 11	11 under 12	12 under 13	13 under 14	14 under 15	15 under 16	16 under 17	Total Boys.	Total Girls.	Grand Total.
Physically Defective,	...	...	...	...	1	...	1	1	...	...	4	...	4
Mentally Dedective,	...	...	2	...	...	2	1	1	...	1	6	1	7
Total,	...	...	2	...	1	2	2	2	...	1	10	1	11



In Dr Rutherford's Report on the Special Class at Camelon, she states that "The Special Class in Camelon School continues to run on the same lines as in previous years. This class is now reduced to six pupils, several having left at the age of fourteen. Of these Miss Fyfe has been able to keep trace of two who are employed locally and earning considerable wages.

"The Intelligence Quotient shows little alteration, being a point or two above the previous one in most cases—but a point or two below in one case.

"The work of the pupils on the whole shows more purpose. The children are understanding and responding to instructions much more readily, although, as is only to be expected, there is little advance in abstract work. As before, work in the concrete is the mainstay of the class. Handwork (raffia-work), bead-threading, sewing, drawing, painting, etc.), goes on as before, and I heard the children singing several songs and saw them performing physical exercises to music. Rhythm appeals to all of them except one child, and he is the one who shows least progress of all.

"One boy who is sixteen years of age left the class, but he has enrolled again. He is physically defective, and his speech is affected, but in this particular he is improving and becoming much more articulate. He is artistic, draws and paints well, and he makes it his special duty to repair simple apparatus that becomes broken. He is also doing mentally problems in buying and selling.

"On the whole the attendance has been very good throughout the year.

"The children are remarkably happy, and take a kindly interest in one another. The lack of social feeling was marked when the class was inaugurated, each one being out for himself more or less. Now there is give and take, and from this point of view alone, if from no other, the class serves a most useful purpose."

The following is a report by Dr. Lindsay on the Special Class at Craigs School, Stirling:—

"This Class, since its institution in September, 1924, has gradually increased from eleven pupils then to thirteen in June, 1926, and later to fifteen in June, 1927. The method used in the selection of children for transfer to the special class was the same as in previous years; "Border-line" cases were referred for special examination by the Headmasters of the several elementary schools in Stirling Burgh, and on the result of this examination, together with a study of the child's scholastic record, the question of transfer was determined.

The number on the Roll is now almost as high as can be accommodated, and as the table shows, the ages vary from 10 to 16 years.

“In the table appended, the individual records of the children are briefly summarised. It will be seen that the results are generally very satisfactory. Instead of the inevitable deterioration which becomes manifest when those cases are kept in ordinary classes, it will be seen that the majority of the cases have derived definite benefit from this Special Class.

“The average Intelligence Quotient on admission, as will be seen from the table appended, was 54, and at present (June, 1927) it is 57·5. Thus we note a definite trend in the upward direction.

“The physical condition of the children has also received attention.

“Miss Swan’s splendid efforts have been supplemented temporarily by those of Miss M’Innes, and the results are extremely gratifying.”

		Date of Birth.	Date of Admission.	Intelligence Quotient.		
				On Admission.	At June, 1927.	
1	J.C.	29 4 13	15 9 24	58	55	No Improvement.
2	W.H.	23 5 13	15 9 24	54	60	Much Improved.
3	A.H.	8 8 13	15 9 24	50	53	Improved.
4	J.M.	11 11 12	15 9 24	51	55	Improved.
5	A.C.	15 3 13	3 11 24	27	29	Improved.
6	G.W.	18 4 11	14 9 26	40	43	Improved.
7	J.M.	15 12 14	27 9 26	51	53	Improved.
8	W.C.	29 8 14	4 10 26	66	62	No Improvement.
9	A.C.	27 9 16	21 2 27	59	66	Much Improved.
10	M.L.	24 1 16	15 9 24	59	65	Improved.
11	C.K.	10 12 12	15 9 24	52	59	Much Improved.
12	N.K.	4 3 15	15 9 24	65	70	Much Improved.
13	M.R.	18 6 13	15 9 24	54	52	Improved.
14	E.S.	15 3 16	15 9 24	64	69	Much Improved.
15	M.K.	10 5 17	26 10 25	60	71	Much Improved.
Average				54	57.5	

## ARRANGEMENTS FOR PHYSICAL EDUCATION AND PERSONAL HYGIENE.

The Medical Assistants have kept in close touch with the routine work of the Physical Instructors. Dr. Findlay writes :

" It again gives me great pleasure to report on the excellent way in which the Physical Training is carried out in the various schools in my district. The Instructors, namely, Mr. Murray at Kilsyth Academy and Buchanan School, and Miss Symington at Denny Public, Larbert Central and Balfron Schools, are to be congratulated on the results. All the gymnastic exercises, games, dancing, etc., are those mentioned in former reports (1922-23, 1924-25) and again a high standard is reached by the pupils. The training is very carefully carried out, and the children carefully watched, any child not physically fit getting a modified form of drill, while a few are excused physical training altogether. The benefit derived from the training is evident. By promoting blood and lymph flow it aids in the removal of fatigue products from other parts, for example, the brain centres. It has been said that " It is on the playground the child really lives. In the school he only prepares to live."

" I would again like to point out how unsuitable the Central Hall at Larbert Central School is for physical training. A gymnasium for this school would be a great boon.

" At Kilsyth Gymnasium four new climbing ropes are badly wanted, the old ones being worn out, too short and have dangerous knots on them. Also a new jumping rope with jumping standards should be provided."

In Dr. Rutherford's Report regarding the above, she states that " There is little that I am able to add to my former reports on the physical instruction in Falkirk High School. The high standard of excellence continues to be maintained, and it is indeed a pleasure to watch the work being carried out with so much zest and keenness.

" As before, movements are introduced in the course of each lesson to exercise all the various groups of muscles, while balancing movements, eye training and distance judging are also part of the training given.

" One piece of apparatus which requires to be renewed is the Double Swedish Boom. The one which is in the gymnasium is antiquated and out-of-date, is much too heavy for the pupils to place in position, and in addition, the cross bars are splintered and cracked, and pupils crawling along these would run the risk of having wood splinters run into their hands, knees and legs. Moreover, this apparatus takes fifteen minutes to put up, fifteen more to take down, while the modern apparatus takes one and a half minutes for each operation, and is capable of being easily handled by the pupils.

" Miss McDougall and Mr. Miller and their pupils are to be congratulated on the excellence of their work.

“ Good work continues to be done by Miss Symington and her pupils at Redding High School. As in the other centres, exercises are varied, and arranged to educate muscles and to stimulate mental alertness. Games were played which demand quickness of eye and touch, team work is encouraged and dance steps are not neglected.

“ On the occasion of my visit the instruction was carried out in the open air. This is always done when weather permits. Since my last report an area of the playground has been tar-macadamised, and although a surface dressing has still to be applied, I am informed that it has made the physical instruction lesson much pleasanter for both pupils and teacher. It would be a further advantage to have the whole playground treated in the same way.

“ No definite arrangement has as yet been come to for the heating of the hall, but I understand the matter is under consideration.

“ I had the privilege of seeing Miss Jarvis and Mr. Murray taking classes in physical instruction in Stirling High School. The exercises given are on the same lines as in the other schools which I have visited—aiming at exercising the various muscle groups and the senses, while the competitive element is introduced to stimulate healthy rivalry and interest. The girls performed a country dance and the boys did a series of strenuous wall-bar exercises.

“ Miss Jarvis continues her remedial classes for the correction of minor defects. As explained formerly, pupils requiring remedial exercises are taken in small groups according to the defect to be corrected. We have an arrangement whereby I examine these pupils once a term. Those considered cured are dismissed, while those who are not satisfactory continue special exercises for a further period. It is to be hoped, of course, that these pupils practice their special exercises daily in their own homes, otherwise the benefit to be derived is much less. Results where the pupils co-operate with their teacher have been very satisfactory.”

Dr. Lindsay reports as follows:—

“ Physical instruction continues to be hampered by lack of accommodation in Bridge of Allan. The gymnasium is entirely inadequate and necessitates too much outdoor work, which in this case is unsuitable. In the other branches of this science much good work is being done.

“ Physical training in Grangemouth High School runs very smoothly under the excellent tuition of Miss Melville. The instruction comprises routine exercises, dancing and games, all of which show careful and exhaustive work, which is to be commended. In addition to routine work, advanced training of a very complete nature is given to Junior Students which should prove invaluable to them in their later career.”

TABULAR STATEMENT OF NURSES' FOLLOW-UP WORK, 1926-1927.

	Number of Children reported	Number of Children waiting visits	Number of visits paid	Conditions reported	Number of cases of Nose, Throat, Ear and Mouth	Number of cases of dirt and vermin	Various defects and diseases
Ordinary Routine Work	1535	112	1868	1904	955	284	699
Eye Work ... ..	1412	314	2468	1412	.....	.....	.....
Total ... ..	2947	426	4336	3316	955	284	699



## . NURSES' WORK.

The tabular statement of the Nurses' follow-up work is self-explanatory. Although the figures indicate an enormous amount of work, I may here mention again, as in last year's report, that the County Nurses gave most valuable assistance during the trying times of the widespread misery caused by the coal dispute which lasted from May, 1926, for approximately six months. Much of the Nurses' time was also occupied in examining and reporting on children whose boots and clothing were in such a condition as to prevent them from attending School. These reports proved most useful to the Local School Management Committees in deciding as to whether or not a grant of clothing should be made.

THOMAS ADAM,

Chief School Medical Officer.



TABLE I.—ANALYSIS OF THE RESULT  
BOYS

CONDITIONS FOUND	5 Age-Group		9 Age-Group	
	No. of Chil- dren	Ratio per cent.	No. of Chil- dren	Ratio per cent.
Number Examined... ..	1717	...	1220	...
*Poorly Nourished ... ..	27	1·6	24	1·9
Verminous Head ... ..	1	·06	2	·16
Dirty Body ... ..	5	·29	1	·08
Carious Teeth { 1-4 ... ..	844	49·2	659	54·01
	512	29·8	223	18·3
*Mouth Breathing ... ..	39	2·3	64	5·2
*Enlarged Tonsils ... ..	425	24·8	216	17·6
*Adenoids ... ..	38	2·2	22	1·8
*Markedly Enlarged Glands ... ..	3	·17	1	·08
*External Eye Disease ... ..	68	3·9	59	4·8
*Defective Vision { One Eye ... ..	Not		27	2·2
	Examined		160	13·1
*Ear Disease ... ..	23	1·3	30	2·5
*Defective Hearing ... ..	5	·29	29	2·4
*Defective Speech ..... ..	10	·58	9	·74
*Mentally Defective ... ..	...	...	8	·66
*Abnormal Condition of Heart ... ..	151	8·8	95	8·8
*Abnormal Condition of Lungs ... ..	170	9·9	56	4·6
*Chorea ... ..	2	·12	3	·25
*Other Nervous Diseases ... ..	10	·58	7	·57
*Tuberculosis { Pulmonary ... ..	3	·17	1	·08
	18	1·05	7	5·7
*Rickets ... ..	20	1·2	6	·49
*Deformities ... ..	22	1·3	21	1·7
*Skin Diseases ... ..	56	3·3	33	2·7
*Infectious Diseases ... ..	29	1·7	2	1·6
*Anæmia ... ..	37	2·2	12	·98
*All Other Diseases or Defects ... ..	43	2·5	22	1·8
Unvaccinated Children ... ..	786	45·8	524	42·9
Mothers Employed Away ... ..	17	·99	6	·49
Children Employed ... ..	...	...	...	...
Clothing—Not Satisfactory ... ..	...	...	3	·25
Footgear—Not Satisfactory ... ..	...	...	...	...
Parents Present ... ..	755	43·9	222	18·2
Consumption in Family ... ..	10	·58	4	·33
Already under Medical Attention	11	·64	4	·33
No. of Defective Children ( <i>i.e.</i> , with Conditions marked thus*)	1054	61·4	691	56·6

# DENTAL OFFICER'S ANNUAL REPORT FROM 24/8/26 TO 30/6/27.

School.	No. of Children Inspected.	No. of Children Requiring Treatment.	No. of Children Treated and Interviewed.	Number of Extractions.		Number of Fillings.		Other Treatment.		
				Temporary.	Permanent.	Temporary.	Permanent.	Dressings.	Scalings.	Other Treatment.
Alrth.	266	221	60	120	25	1	39	9	...	...
Ancheagan, ...	20	15	8	7	...	...	9	2	...	...
Bainsford, ...	731	617	108	110	...	11	65	33	1	...
Bonnybridge, ...	437	384	95	151	41	7	59	14	...	...
Bothkennar, ...	138	122	53	92	17	2	34	7	...	...
Broomhill, ...	30	27	12	38	1	1	1	...	...	...
Canelon, ...	691	580	118	222	27	5	74	24	...	...
Carmuts, ...	575	489	134	211	44	6	74	26	...	...
Carron, ...	349	301	70	120	15	6	45	10	...	...
Carronshore, ...	400	338	36	53	19	2	21	9	...	...
Comely Park, ...	812	700	144	206	59	4	87	33	1	...
Drumbowle, ...	382	323	145	265	78	4	100	10	...	...
Falkirk High, ...	508	356	74	8	32	...	138	3	5	...
Falkirk P. High, ...	378	305	55	80	20	3	37	25	...	...
Greenhill, ...	274	241	80	111	34	3	60	9	...	...
Laurieston, ...	462	387	93	169	38	8	61	16	...	...
Larbert C., ...	700	561	3	...	...	...	3	3	...	...
Maddeston, ...	364	320	127	207	36	8	91	19	...	...
Muiravonside, ...	106	89	28	60	6	3	16	17	...	...
Northern, ...	517	454	78	111	41	2	71	8	...	...
Polmont, ...	150	131	16	35	6	...	13	3	...	...
Redding P., ...	241	212	33	23	27	...	29	3	...	...
Redding V., ...	127	116	13	21	3	3	2	...	...	...
Sheldhill, ...	296	269	106	173	44	4	68	...	...	...
Slamannan, ...	...	...	68	80	36	1	58	19	2	...
South Alloa, ...	66	54	7	16	...	...	5	...	...	...
St. Francis R.C., ...	507	413	88	139	46	2	66	1	...	...
Victoria, ...	766	688	147	129	52	4	106	20	1	...
Child Welfare, ...	...	...	2	6	3	...	...	32	2	...
	10,293	8713	2001	2963	776	90	1432	362	21	5

Looking at the table of Mr. Somerville's work it will be seen that of the 3201 children inspected by him, as many as 2455 required treatment of greater or lesser degree. The number of children actually treated by Mr. Somerville was, however, only 278, or about one-ninth of the children actually requiring treatment. This is a serious business. It may be pointed out, however, that Stirling Burgh is comparatively well supplied with dentists and very probably many of the children advised as to treatment received attention from their family dentist. The figures probably mean, however, that only the most urgent cases receive attention.

**WHOLE-TIME DENTISTS' WORK.**—The tables are constructed in the same manner as in the case of Mr. Somerville's, with the totals being given for each school. It will be seen that each of the whole-time dentists has inspected over 10,000 children, of whom fully 8000 in each case were adjudged to be requiring more or less treatment. Of this number, however, it will be noticed that approximately only a fourth were actually treated, the proportion being considerably higher than in the case of Stirling Burgh. That probably means that the facilities for other dental treatment in the County areas are less than in the Burgh of Stirling. The proportions, however, in all the areas cannot be considered satisfactory, and, as I have said, it probably means that it is only the more urgent cases which are really being treated. It may be said that the proportions being treated, although still so unsatisfactory, have shown an increase from year to year. The natural dread of the child to sit in the dentist's chair has to some extent been overcome. It may be that the charge of a shilling per case is a deterrent in many cases. Quite a large number are treated free on making a declaration that they are necessitous. In each such case the formal statement of the circumstances is considered by the Local School Management Committee, who presumably know the home conditions, and a decision is given as to whether the child should receive dental treatment free. Others though able to pay may grudge the shilling and rather allow the child to go untreated. There may be another class, however, who, though not very able to pay the shilling, feel too independent to apply for treatment because of necessitousness.

The dental staff relative to the number on the Roll is small and the dentists are very fully employed. If the proportion of those accepting treatment goes on increasing, as is desirable, it would be necessary to increase the staff.

A very pleasing feature of the report is the large amount of conservative dentistry which is done in the shape of fillings, especially of the permanent teeth.

# NOSE AND THROAT.

Of the 8769 children seen in routine inspection, a fifth showed nasal catarrh largely due to common colds or some such cause. That is a slight increase on last year. It is also seen that 113 routine cases and 56 special cases, in all 169, were found suffering from nasal obstruction. About one-fifth of those examined had tonsils either slightly or markedly enlarged, mostly due to temporary causes, while 3.88 per cent. of the children were reported as having adenoids present or probably present as compared with 3.04 per cent. last year.

No. Examined		Nasal Catarrh	Obstruction	Other Diseases	TONSILS		ADENOIDS		Other Diseases
					Slightly Enlarged	Markedly Enlarged	Probably Present	Present	
Boys	... .. 4427	917	79	34	729	194	111	69	...
Girls	... .. 4342	677	34	27	778	184	107	55	...
Total Routine	... 8769	1594	113	61	1507	378	217	124	...
Percentages	.....	18.18	1.29	.69	17.19	4.31	2.47	1.41	...
Special Cases	... ..	11	56	8	56	11	15	41	...

### LYMPHATIC GLANDS.

From the following table it is seen that 15.25 per cent. had their submaxillary glands palpably enlarged, whereas 38.86 had cervical glands palpably enlarged. Cases of markedly enlarged submaxillary glands only amounted to .03, while cases of markedly enlarged cervical glands only formed .18 per cent. Although these, fortunately, form a very small proportion, they derive importance from the fact that the resistance of such inflamed glands to disease is lessened so that they are apt to become the site of tuberculous disease. Yearly it is urged upon the parents to have medical advice regarding such swollen glands, in order that the irritating cause may as soon as possible be removed.

			SUBMAXILLARY				CERVICAL			
			Palpably Enlarged	Markedly Enlarged	Suppurating	Cicatrices	Palpably Enlarged	Markedly Enlarged	Suppurating	Cicatrices
Boys	...	...	4427	...	...	1	1807	4	...	42
Girls	...	...	4342	3	...	2	1601	12	...	38
Total Routine	...	...	1337	3	...	3	3408	16	...	80
Percentages	...	...	15.25	.03	...	.03	38.68	.18	...	.91
Special Cases	...	...	...	...	...	...	7	1	...	4

## EXTERNAL EYE DISEASE.

No. Examined	Blepharitis	Conjunctivitis	Corneal Opacity	Strabismus	Other Diseases
Boys ... 4427	57	10	12	79	21
Girls ... 4342	87	9	11	87	21
Total Routine 8769	144	19	23	166	42
Percentages ...	1.64	.22	.26	1.89	.48
Special Cases	37	13	11	50	11

The percentage of children found suffering from blepharitis was 1.64, much the same as last year. The percentage suffering from conjunctivitis was only .22, practically the same as last year. Both these affections are, as a rule, easily treated and cured, but if neglected may lead to corneal ulcers, which are apt to leave opacities in the cornea. The percentage of children affected with corneal opacities was only .26, a marked decrease on last year, probably indicating that inflammatory affections of the eye are now receiving earlier attention from the parents. The percentage of children suffering from strabismus or squint was 1.89, as compared with 1.49 in the preceding year. Cases of squint are now being dealt with at the very earliest periods, being brought to the notice of the School Oculist on their enrolment in school. There is also an arrangement by which children below school age are treated by the School Oculist but at the expense of the County Child Welfare Committee. Several children below school age were thus treated, but in the interests of the affected children the number might well be increased.

## VISUAL ACUITY.

No. Examined	Good Vision	Fair Vision	Bad Vision	One Eye Defective
Boys ... 4427	3770	221	350	86
Percentages ...	85.16	4.99	7.91	1.94
Girls ... 4342	3499	386	390	67
Percentages ...	80.59	8.89	8.98	1.54
Total Routine ... 8769	7269	607	740	153
Percentages ...	82.89	6.92	8.44	1.75
Special Cases ...	...	34	322	35



Last year it was recorded that the results as to visual acuity were the most favourable we had had since the commencement of Medical Inspection. The year under review shows results, if anything, slightly better. For example, of the 8769 routine inspections 82·89 per cent. had good vision as compared with 81·08 per cent. in the preceding year, 6·92 per cent. had fair vision, as compared with 7·75 per cent. last year, while only 8·44 per cent. had bad vision, as compared with 9·22 last year. 1·75 per cent. had one eye defective, as compared with 2·05 in the preceding year. It will be noticed that the percentage of boys with good vision still continues higher than in the case of the girls.

## EARS.

No. Examined				Otorrhœa	Wax	Other Diseases
Boys	...	...	4427	64	6	5
Girls	...	...	4342	60	5	2
Total Routine	...	...	8769	124	11	7
Percentages	...	...	...	1·41	·12	·08
Special Cases	...	...	...	80	1	1

The number of children found suffering from otorrhœa or middle ear disease amounted to 1·41 per cent., while 80 special cases were submitted by the teachers or parents for examination and advice. Most of these cases of middle ear disease arise in connection with acute infectious disease. Occasionally in our Fever Hospitals it is necessary to call in a surgeon specialist to deal with such a case. The hearing, however, is apt to be interfered with for the rest of the child's life. In last year's report I spoke of a circular issued by the Scottish Board of Health, urging special arrangements to be made for keeping under supervision all such cases, and I foreshadowed an arrangement between the Local Health Authority, the County Education Authority and the County Child Welfare Authority for that purpose, but pointed out that such an arrangement for this County could only really be feasible when the new Infirmarys at Falkirk and Stirling respectively are completed.



## HEARING.

No. Examined				Good	Slightly Deaf	Markedly Deaf
Boys	...	...	4427	4380	14	33
Girls	...	...	4342	4312	16	14
Total Routine	...	...	8769	8692	30	47
Percentages	...	...	...	99.12	.34	.54
Special Cases	...	...	...	...	44	21

The percentage showing slight deafness is .34, practically the same as last year, and those showing marked deafness .54, indicating a decrease. This decrease has been progressive for the past four years, and would appear to indicate that parents, recognising the serious handicap which deafness is throughout life, are giving more attention to ailments affecting the ear structure either directly or indirectly.

## SPEECH.

No. Examined				Defective Articulation	Stammering
Boys	...	...	4427	14	21
Girls	...	...	4342	17	4
Total Routine	...	...	8769	31	25
Percentages	...	...	...	.35	.29
Special Cases	...	...	...	9	2

With regard to defective articulation, the percentage this year shows the defect is only .35, as compared with .49 last year. The percentage of stammerers was only .29, as compared with .34 last year. This year's figures again bear out how much more prone boys are to the defect of stammering than are girls.

## MENTAL CONDITION.

No. Examined				Dull or Backward	Mentally Defective
Boys	...	...	4427	22	1
Girls	...	...	4342	13	1
Total Routine	...	...	8769	35	2
Percentages	...	...	...	.39	.02
Special Cases	...	...	...	43	14

The percentage of dull or backward children found on routine inspection was only .39, and of mentally defective children .02, these figures comparing favourably with the corresponding figures .49 and .05 of last year. The reason for the percentages being so low is that the really backward children have been drafted to Special Classes in Stirling, Camelon, and Kilsyth, and such children do not come under routine inspection. Special reports on these classes are given at a later part of the Report.

## HEART AND CIRCULATION.

No. Examined				Organic Diseases		Functional Disease	Anæmia
				Congenital	Acquired		
Boys	...	...	4427	2	213	167	67
Girls	...	...	4342	1	178	136	45
Total Routine	8769			3	391	303	112
Percentages	...	...		.03	4.46	3.46	1.28
Special Cases	...			2	35	5	14

The percentage of children found on routine inspection to have organic disease of the heart was 4.49, and the percentage with functional disease 3.46. These figures remain fairly constant from year to year. It will be noted that three children were born with defective hearts. Cases of acquired organic disease are usually due to rheumatic or allied affections, and may follow upon "growing pains," chorea, scarlet fever, as well as affections which are frankly rheumatic. It therefore behoves parents to take great care and have medical advice even for such affections as "growing pains," which are only too apt to be considered a very slight ailment.

## LUNGS.

No. Examined				Bronchial Catarrh	Chronic Bronchitis	Tuberculosis	Tuberculosis Suspected	Other Diseases
Boys	...	...	4427	251	8	7	3	11
Girls	...	...	4342	214	3	3	1	9
Total Routine	8769			465	11	10	4	20
Percentages	...			5.30	.12	.11	.04	.23
Special Cases				16	1	6	4	16

The percentage of children found with Bronchial Catarrh was 5.30. This affection is more common in the winter and spring months, and may be due entirely to what is regarded as an ordinary cold. If it is neglected it may develop into chronic bronchitis, which is very apt to render the lung tissue less resistant to invasion by the tubercle bacillus. The figure indicating the prevalence of definite tuberculosis of the lungs is happily small, being only .11 per cent. Fortunately, also, the treatment of such children when put under good conditions is extremely hopeful, but parents cannot be too often reminded to be on their guard in all cases where children show a tendency to taking colds and coughs readily.

### NERVOUS SYSTEM.

No. Examined				Epilepsy	Chorea	Infantile Paralysis	Other Diseases
Boys	...	...	4427	4	5	8	36
Girls	...	...	4342	2	3	3	23
Total Routine	...	...	8769	6	8	11	59
Percentages	...	...	...	.07	.09	.12	.67
Special Cases	...	...	...	...	7	3	6

Among the routine cases examined, 6 children were found suffering from epilepsy, 8 from chorea (St. Vitus Dance), and 11 from Infantile Paralysis. In addition 10 special cases were brought to the Medical Inspector's notice, 7 suffering from chorea and 3 from infantile paralysis.

### TUBERCULOSIS (NON-PULMONARY).

No. Examined				Glandular	Bones and Joints	Abdominal	Skin
Boys	...	...	4427	9	11	8	3
Girls	...	...	4342	18	1	5	1
Total Routine	...	...	8769	27	12	13	4
Percentages	...	...	...	.31	.14	.15	.04
Special Cases	...	...	...	2	4	2	...

Twenty-seven children were found with tubercular glands, 12 with tubercular affection of the bones and joints, 13 with abdominal tuberculosis, and 4 with tuberculosis of the skin (lupus). The figures generally are higher this year than last,

but that may be regarded pretty much as an accident, because from statistical returns it has been amply proved that tuberculosis has been on the decrease for many years. As mentioned in last year's report, arrangements have been made by which all such cases requiring treatment can be dealt with in the Sectioned Pavilions of the County Fever Hospitals, while cases requiring surgical treatment may be treated at the Stirling Royal Infirmary or the Falkirk Infirmary. Some of those affected with lupus were treated at the Hospitals in Edinburgh or Glasgow, and also at the Stirling Royal Infirmary. In addition, ultra violet ray apparatus has now been installed in the Special Ward at Camelon Hospital. It is intended also to have a similar apparatus provided at Bannockburn Hospital, so that more and more of these cases will be able to benefit.

### RICKETS.

No. Examined				Slight	Marked
Boys	...	...	4427	28	3
Girls	...	...	4342	19	1
Total Routine	...	...	8769	47	4
Percentages	...	...	...	·54	·04
Special Cases	...	...	...	...	...

The figures with regard to rickets are slightly less than last year. This affection readily yields to treatment by ultra-violet radiation and especially when the children are young, and it is probable that the figures for school children will show a marked decrease when a sufficiency of ultra violet ray apparatus has been installed throughout the County.

### DEFORMITIES.

No. Examined				Congenital	Acquired (Non-Rhachitic)
Boys	...	...	4427	6	69
Girls	...	...	4342	7	33
Total Routine	...	...	8769	13	102
Percentages	...	...	...	·15	1·16
Special Cases	...	...	...	1	8

Thirteen children were found with some congenital deformity, and in addition 102 children were found with some acquired defect not due to rickets. As before, a good many of the latter class were due to pigeon chest more or less marked.

## INFECTIOUS DISEASES.

No. Examined	Scarlet Fever	Whoop- ing Cough	Measles	Mumps	Chicken- pox
Boys ... 4427	2	1	...	20	8
Girls ... 4342	...	...	...	5	3
Total					
Routine 8769	2	1	...	25	11
Percentages ...	.02	.01	...	.28	.12
Special Cases	1	...	...	16	2

It will be noticed from the foregoing table that two cases of scarlet fever, one of whooping cough, 25 of mumps and 11 of chickenpox were found in attendance at school. Mumps and chickenpox were particularly prevalent among school children during the year. Owing to the epidemic of smallpox in Dundee, the Board of Health considered it wise to make chickenpox a notifiable infectious disease temporarily, because it is often very difficult to differentiate between a mild case of smallpox and a severe one of chickenpox. Happily, however, no case of smallpox occurred in the County.

## OTHER DISEASES OR DEFECTS.

No. Examined	Hernia	Enuresis	Enlarged Thyroid	Others
Boys ... 4427	17	8	10	50
Girls ... 4324	9	15	29	44
Total				
Routine... 8769	26	23	39	94
Percentages ...	.29	.26	.44	1.07
Special Cases	...	3	...	25

The above table shows that 26 children were found on routine examination to be suffering from Hernia, 23 from Enuresis and 39 from Enlarged Thyroid. The proportion of boys as compared with girls suffering from the last named affection is approximately one to three.

## SPECIAL SCHOOLS OR CLASSES.

DEFECTIVE AND INVALID CHILDREN.—At the monthly meetings throughout the year there are always reports to be



considered on cases of defective and invalid children. These come under two categories, educable and non-educable. The educable children, by far the greater in number, are dealt with by the Education Authority, while the non-educable come under the care of the Parish Council.

The defective children who are educable are sub-divided into mental defectives and physical defectives. For the mental defectives special classes have been in operation for a considerable time at Camelon, Stirling and Kilsyth. These classes meet the requirements of children living in their immediate neighbourhood. With regard to the physical defectives nothing has as yet been done.

Some years ago the County Education Authority did move in the direction of dealing with all defectives in a very comprehensive way, but owing to the necessity for economy, the Government curtailed the activities of the Education Authority. There is again, however, an indication that this work will be taken up, and in fact I have been requested to present to the Authority a statement as to invalid and physically and mentally defective children in the various areas in the County.

Dr. Findlay reports as follows on the Special School at Burngreen, Kilsyth: "This School, under the direction of Miss Gray, continues to do good and useful work. Miss Gray reports that all the children have made some progress, although very slight in some cases. Special aptitude is shown for manual work, and the children are encouraged in any branch for which they show a special aptitude. All the children were examined, and their Intelligence Quotient again determined with the following results:—

Improved,	...	...	...	2
Practically stationary,	...	...	4	
Newly enrolled,	...	...	...	3

"Two physically defective children are now so bad as to be unable to attend school and are kept at home.

"The following tables show the Actual Attendances made by all the scholars, the Average Attendances and the number on the Roll on the last day of opening:—

NUMBER OF TIMES THE SCHOOL WAS OPEN, 1926-1927—

Morning,	...	...	...	...	...	203
Afternoon,	...	...	...	...	...	203
Total,	...	...	...	...	...	<u>406</u>

Total number of Actual Attendances—morning and afternoon together—made by all the Scholars.

## OF ROUTINE MEDICAL INSPECTION, 1926-27.

## BOYS

13 Age-Group		16 Age-Group		Total Com- bined Ages		Ratio per cent. for 1925 1926
No. of Chil- dren	Ratio per cent.	No. of Chil- dren.	Ratio per cent.	No. of Chil- dren	Ratio per cent.	
1369	...	121	...	4427	...	...
22	1.6	...	...	73	1.6	1.5
1	.07	...	...	4	.09	.64
5	.37	...	...	11	.25	.27
789	57.6	52	42.9	2344	52.9	49.5
69	5.03	14	11.6	818	18.5	19.4
35	2.6	...	...	136	3.1	3.5
265	19.4	17	14.04	923	20.8	20.5
9	.66	...	...	69	1.3	1.1
...	...	...	...	4	.09	.29
50	3.7	2	1.7	179	4.04	3.6
49	3.6	10	8.3	86	1.9	2.5
182	13.3	8	6.6	350	7.9	7.9
21	1.5	1	.82	75	1.7	1.3
13	.95	...	...	47	1.1	.9
15	1.1	1	.82	35	.79	1.1
15	1.1	...	...	23	.52	.65
115	8.4	21	17.4	382	8.6	9.5
45	3.3	2	1.7	273	6.2	7.3
...	...	...	...	5	.11	.02
8	.58	2	1.7	27	.61	.51
3	.22	...	...	7	.16	.09
6	.44	...	...	31	.70	.56
5	.37	...	...	31	.70	.76
31	2.3	1	.82	75	1.7	1.8
16	1.2	6	4.9	111	2.5	2.8
...	...	...	...	31	.70	.2
16	1.2	2	1.7	67	1.5	1.03
19	1.4	1	.82	84	1.9	2.09
402	29.4	15	12.4	1727	39.01	33.5
19	1.4	5	4.1	47	1.1	1.9
79	5.8	3	2.5	82	1.9	1.8
3	.22	...	...	6	.14	.54
2	.15	...	...	2	.05	.5
32	2.3	4	3.3	1013	22.9	20.1
29	.66	...	...	23	.52	.72
5	.37	...	...	20	.45	.67
676	49.4	60	49.6	2481	56.04	57.09

TABLE II.—ANALYSIS OF THE RESULTS OF  
GIRLS

CONDITIONS FOUND	5 Age-Group		9 Age-Group	
	No. of Chil- dren	Ratio per cent.	No. of Chil- dren	Ratio per cent.
Number Examined... ..	1630	...	1253	...
*Poorly Nourished ... ..	38	2·3	45	3·6
Verminous Head ... ..	39	2·4	10	·79
Dirty Body ... ..	2	·12	3	·23
Carious Teeth { 1-4 ... ..	777	47·7	461	36·7
*5 and over ...	458	28·1	237	18·8
*Mouth Breathing ... ..	25	1·5	36	2·8
*Enlarged Tonsils ... ..	375	23·	274	21·8
*Adenoids ... ..	36	2·2	17	1·3
*Markedly Enlarged Glands ... ..	8	·49	2	·16
*External Eye Disease ... ..	74	4·5	92	7·34
*Defective Vision { One Eye ...	Not Examined		23	1·83
Both Eyes ...			166	13·2
*Ear Disease ... ..	31	1·9	19	1·51
*Defective Hearing ... ..	4	·24	16	1·27
*Defective Speech ... ..	15	·92	2	·16
*Mentally Defective ... ..	1	·06	5	·39
*Abnormal Condition of Heart ...	105	6·4	70	5·5
*Abnormal Condition of Lungs ...	160	9·8	42	3·4
*Chorea ... ..	...	...	2	·16
*Other Nervous Diseases ... ..	2	·12	3	·23
*Tuberculosis { Pulmonary ...	...	...	2	·16
Other Forms ...	15	·92	5	·4
*Rickets ... ..	10	·6	5	·4
*Deformities ... ..	13	·79	12	·9
*Skin Diseases ... ..	47	2·9	30	2·3
*Infectious Diseases ... ..	9	·55	...	...
*Anæmia ... ..	20	1·2	16	1·27
*All other Diseases or Defects ...	39	2·4	24	1·9
Unvaccinated Children ... ..	757	46·4	559	44·5
Mothers Employed Away ... ..	18	1·1	...	...
Children Employed ... ..	17	1·	...	...
Clothing—Not Satisfactory ... ..	...	...	...	...
Footgear—Not Satisfactory ... ..	2	·12	...	...
Parents Present ... ..	766	46·9	248	19·9
Consumption in Family ... ..	7	·42	8	·64
Already under Medical Attention	7	·42	7	·55
Number of Defective Children (i.e., with conditions marked thus*)	961	58·9	695	55·5



## ROUTINE MEDICAL INSPECTION, 1926-27.

## GIRLS

13 Age-Group		16 Age-Group		Total Com- bined Ages		Ratio per cent. for 1925- 1926
No. of Chil- dren	Ratio per cent.	No. of Chil- dren	Ratio per cent.	No. of Chil- dren	Ratio per cent.	
1352	...	107	...	4342	...	...
28	2.1	...	...	111	2.6	2.4
29	2.2	...	...	78	1.8	2.79
...	...	...	...	5	.12	.19
746	55.2	54	50.4	2038	46.9	48.6
86	6.4	6	5.6	787	18.1	18.65
12	.89	1	.93	74	1.7	2.08
291	21.5	22	20.6	962	22.2	20.55
2	.15	...	...	55	1.3	1.02
5	.37	...	...	15	.35	.16
48	3.6	1	.93	215	4.9	3.9
40	2.9	4	3.7	67	1.5	1.5
211	15.6	13	12.2	390	8.9	10.4
17	1.3	...	...	67	1.5	1.6
10	.74	...	...	30	.69	1.04
4	.29	...	...	21	.48	.46
7	.52	1	.93	14	.32	.43
134	9.9	6	5.6	315	7.3	8.2
23	1.7	1	.93	227	5.2	5.04
1	.07	...	...	3	.06	.04
3	.22	2	1.9	10	.23	.46
1	.07	...	...	3	.06	.07
5	.37	...	...	25	.57	.53
5	.37	...	...	20	.46	.43
14	1.03	1	.93	40	.92	.89
35	2.6	10	9.3	103	2.4	2.5
...	...	...	...	9	.21	.09
8	.59	1	.93	45	1.03	1.28
34	2.5	...	...	97	2.2	2.7
359	26.6	10	9.3	1685	38.8	32.3
26	1.9	3	2.8	64	1.5	1.5
1	.07	...	...	1	.02	.31
...	...	...	...	...	...	.14
...	...	...	...	2	.04	.02
48	3.6	2	1.9	1064	23.5	25.1
9	.67	...	...	24	.55	.87
5	.37	...	...	19	.44	.97
700	51.8	58	54.2	2414	55.6	57.4

TABLE III.—ANALYSIS OF THE RESULTS OF ROUTINE MEDICAL INSPECTION, 1926-27.

## TOTAL COMBINED AGES AND SEXES.

CONDITIONS FOUND	No. of Children	Ratio per cent.	Ratio per cent. for 1925-26
Number Examined ... ..	8769	...	...
*Poorly Nourished ... ..	183	2.08	1.9
Vermineous Head... ..	82	.93	1.7
Dirty Body ... ..	16	.18	.23
Carious Teeth { 1-4 ... ..	4382	49.9	49.1
*5 and over ... ..	1605	18.3	19.1
*Mouth Breathing ... ..	210	2.3	2.8
*Enlarged Tonsils... ..	1885	21.4	20.5
*Adenoids ... ..	124	14.1	1.07
*Enlarged Glands ... ..	19	.21	.23
*External Eye Disease ... ..	394	4.5	3.7
*Defective Vision { One Eye ... ..	153	1.74	2.04
Both Eyes ... ..	740	8.4	9.2
*Ear Disease ... ..	142	1.6	1.4
*Defective Hearing ... ..	77	.87	.97
*Defective Speech ... ..	56	.63	.83
*Mentally Defective ... ..	37	.41	.53
*Abnormal Condition of Heart ... ..	697	7.9	8.9
*Abnormal Condition of Lungs ... ..	500	5.7	6.7
*Chorea ... ..	8	.09	.03
*Other Nervous Diseases ... ..	37	.42	.49
*Tuberculosis { Pulmonary ... ..	10	.11	.08
Other Forms ... ..	56	.63	.54
*Rickets ... ..	51	.58	.59
*Deformities ... ..	115	1.3	1.3
*Skin Diseases, ... ..	214	2.4	2.7
*Infectious Diseases ... ..	40	.45	.15
*Anæmia ... ..	112	1.28	1.1
*All Other Diseases or Defects... ..	181	2.06	2.4
Unvaccinated Children ... ..	3412	3.8	32.9
Mothors Employed Away ... ..	111	1.26	1.8
Children Employed ... ..	83	.94	1.08
Clothing—Not Satisfactory ... ..	6	.06	.39
Footgear—Not Satisfactory ... ..	4	.04	.03
Parents Present ... ..	2077	23.6	22.5
Consumption in Family ... ..	47	.53	.79
Already under Medical Attention ... ..	39	.44	.81
Number of Defective Children (i.e., with Conditions marked thus*) ... ..	4895	55.8	57.2

TABLE IV.—ANALYSIS OF THE RESULTS OF NON-ROUTINE MEDICAL INSPECTION, 1926-27.

CONDITIONS FOUND	NO OF CHILDREN
Number Examined ... ..	1816
Number Entered on Card ... ..	1116
*Poorly Nourished ... ..	2
Verminous Head ... ..	54
Dirty or Verminous Body ... ..	10
*Carious Teeth (5 and over) ... ..	2
*Mouth Breathing ... ..	11
*Enlarged Tonsils ... ..	67
*Tonsilitis... ..	...
*Adenoids... ..	41
*Enlarged Glands ... ..	1
*Other Defects of Nose and Throat ... ..	75
*External Eye Disease ... ..	122
*Defective Vision (One Eye) ... ..	35
„ „ (Both Eyes) ... ..	322
*Ear Disease ... ..	82
*Defective Hearing ... ..	65
*Defective Speech ... ..	11
*Mentally Defective ... ..	57
*Abnormal Condition of Heart ... ..	42
*Abnormal Condition of Lungs ... ..	37
*Chorea ... ..	7
*Other Nervous Diseases ... ..	7
*Tuberculosis { Pulmonary ... ..	6
{ Other Forms ... ..	8
*Rickets ... ..	...
*Deformities ... ..	9
*Skin Diseases ... ..	122
*Infectious Diseases ... ..	20
*Anæmia ... ..	14
*General Debility ... ..	8
*All Other Diseases or Defects ... ..	34
Parents Present ... ..	100
Already under Medical Attention ... ..	29
Clothing—Not Satisfactory ... ..	13
Footgear—Not Satisfactory ... ..	5





